

Title (en)

NON-INVASIVE ENCRYPTION FOR RELATIONAL DATABASE MANAGEMENT SYSTEMS

Title (de)

NICHTINVASIVE VERSCHLÜSSELUNG FÜR MANagementsYSTEME RELATIONALER DATENBANKEN

Title (fr)

CHIFFREMENT NON INVASIF DESTINE A DES SYSTEMES DE GESTION DE BASE DE DONNEES RELATIONNELLE

Publication

**EP 1869575 A4 20120620 (EN)**

Application

**EP 06748827 A 20060328**

Priority

- US 2006011333 W 20060328
- US 66535705 P 20050328

Abstract (en)

[origin: US2006218190A1] A secure relational database system is provided which utilizes a non-invasive encryption technique. Data pages stored or retrieved by a relational database management system are diverted to a multi-channel hardware encryption engine for processing. Each data page is divided into multiple buffers and distributed among the channels of the hardware encryption engine to be processed simultaneously. The data page is then reassembled and passed on to its intended destination.

IPC 8 full level

**G06F 21/24** (2006.01); **G06F 17/00** (2006.01)

CPC (source: EP KR US)

**G06F 17/40** (2013.01 - KR); **G06F 21/00** (2013.01 - KR); **G06F 21/6218** (2013.01 - EP US); **G06F 21/6227** (2013.01 - EP US);  
**G06F 21/72** (2013.01 - EP US)

Citation (search report)

- [I] WO 0069112 A1 20001116 - CENTURA SOFTWARE [US], et al
- [A] WO 0036786 A1 20000622 - PHILIPS ELECTRONICS NA [US]
- [A] US 2002048364 A1 20020425 - GLIGOR VIRGIL DORIN [US], et al
- [XI] IBM: "IBM Data Encryption for IMS and DB2 Databases User's Guide", no. Chapter 1, February 2005 (2005-02-01), XP007920590, Retrieved from the Internet <URL:http://publibfp.dhe.ibm.com/epubs/pdf/decuga12.pdf> [retrieved on 20120504]
- See references of WO 2006105116A2

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC NL PL PT RO SE SI SK TR

DOCDB simple family (publication)

**US 2006218190 A1 20060928**; AU 2006230194 A1 20061005; AU 2006230194 B2 20110414; CA 2603099 A1 20061005;  
CN 101288065 A 20081015; CN 101288065 B 20100908; EP 1869575 A2 20071226; EP 1869575 A4 20120620; JP 2008538643 A 20081030;  
KR 20080005239 A 20080110; MX 2007012024 A 20071123; WO 2006105116 A2 20061005; WO 2006105116 A3 20071213;  
WO 2006105116 A9 20080221

DOCDB simple family (application)

**US 39024706 A 20060328**; AU 2006230194 A 20060328; CA 2603099 A 20060328; CN 200680018338 A 20060328; EP 06748827 A 20060328;  
JP 2008508863 A 20060328; KR 20077025020 A 20071029; MX 2007012024 A 20060328; US 2006011333 W 20060328